

What is claimed is:

1. A rotary motor comprising:

A housing having a circular cavity of a cavity diameter, the circular cavity being bounded by a cavity wall, and the housing having an inlet and an outlet that provide fluid communication to and from the circular cavity;

A rotor having a circular body, the circular body being of a rotor diameter that is smaller than the cavity diameter, the rotor being positioned within the circular cavity with the rotor being spaced apart and in a generally concentric manner with the circular cavity to define an expansion track; and

At least one sealing fin, the sealing fin being attached to the circular body and extending from the circular body to the cavity wall sealing the expansion track, so that delivery of a pressurized gas through the inlet allows expansion of the gas in the expansion track and against the sealing fin, urging the rotation of the rotor.

2. A rotary motor according to claim 1 and further comprising at least one sealing flap, the sealing flap extending from the cavity wall towards the rotor.

3. A rotary motor according to claim 2 wherein said sealing flap is pivotably supported from the housing.

4. A rotary motor according to claim 1 wherein said sealing fin

is made of a resilient material, so that the sealing fin is urged against the cavity wall by the resiliency of the material.

5. A rotary motor according to claim 1 wherein said sealing fin is pivoably connected to the rotor, so that the sealing fin is urged against the cavity wall by centripetal acceleration.

6. A rotary motor comprising:

A housing having a circular cavity of a cavity diameter, the circular cavity being bounded by a cavity wall, and the housing having an inlet and an outlet that provide fluid communication to and from the circular cavity;

A rotor having a circular body, the circular body being of a rotor diameter that is smaller than the cavity diameter, the rotor being positioned within the circular cavity with the rotor being spaced apart and in a generally concentric manner with the circular cavity to define an expansion track; and

At least two sealing fins, the sealing fins being attached to the circular body and extending from the circular body to the cavity wall to seal the expansion track, so that delivery of a pressurized gas through the inlet allows expansion of the gas in the expansion track and against the sealing fin, urging the rotation of the rotor.

7. A rotary motor according to claim 6 and further comprising at least one sealing flap, the sealing flap extending from the

cavity wall towards the rotor.

8. A rotary motor according to claim 7 wherein said sealing flap is pivotably supported from the housing.

9. A rotary motor according to claim 6 wherein said sealing fins are made of a resilient material, so that each of the sealing fins is urged against the cavity wall by the resiliency of the material.

10. A rotary motor according to claim 6 wherein each of said sealings fin is pivoably connected to the rotor, so that each of the sealing fins is urged against the cavity wall by centripetal acceleration.

11. A rotary motor comprising:

A housing having a circular cavity of a cavity diameter, the circular cavity being bounded by a cavity wall, and the housing having an inlet and an outlet that provide fluid communication to and from the circular cavity;

A rotor having a circular body, the circular body being of a rotor diameter that is smaller than the cavity diameter, the rotor being positioned within the circular cavity with the rotor being spaced apart and in a generally concentric manner with the circular cavity to define an expansion track; and

At least two sealing fins, the sealing fins being attached

to the circular body and extending from the circular body to the cavity wall;

A pair of sealing walls, the sealing walls extending from the rotor to the cavity wall, the sealing walls cooperating with the sealing fins to seal the expansion track, so that delivery of a pressurized gas through the inlet allows expansion of the gas in the expansion track and against the sealing fin, urging the rotation of the rotor.

12. A rotary motor according to claim 11 and further comprising at least one sealing flap, the sealing flap extending from the cavity wall towards the rotor.

13. A rotary motor according to claim 12 wherein said sealing flap is pivotably supported from the housing.

14. A rotary motor according to claim 12 wherein said sealing fins are made of a resilient material, so that each of the sealing fins is urged against the cavity wall by the resiliency of the material.

15. A rotary motor according to claim 12 wherein each of said sealings fin is pivoably connected to the rotor, so that each of the sealing fins is urged against the cavity wall by centripetal acceleration.